

Title (en)

Sealing cold leg nozzles of nuclear reactor pressure vessels.

Title (de)

Abdichteinrichtung für Rohrleitungen von Kernreaktordruckbehältern.

Title (fr)

Système de fermeture étanche des conduites d'alimentation des cuves des réacteurs nucléaires.

Publication

EP 0112073 A1 19840627 (EN)

Application

EP 83307132 A 19831122

Priority

US 45045782 A 19821215

Abstract (en)

Cold leg nozzles (32) of a nuclear reactor pressure vessel are sealed during plant outages for reactor vessel inspection and core support maintenance by inserting a sealing plug (20) into each of the cold leg nozzle (32) by means of an installation tool (16) suspended within the vessel, to permit drainage of downstream piping and inspection and maintenance of associated steam generators and pumps.

IPC 1-7

G21C 13/06; **F16L 55/12**

IPC 8 full level

F16L 55/132 (2006.01); **G21C 13/06** (2006.01); **G21C 13/067** (2006.01); **G21C 19/04** (2006.01)

CPC (source: EP KR)

F16L 55/132 (2013.01 - EP); **G21C 13/067** (2013.01 - EP); **G21C 19/04** (2013.01 - KR); **Y02E 30/30** (2013.01 - EP)

Citation (search report)

- [XP] US 4393899 A 19830719 - TSUJI TADASHI [JP], et al
- [A] GB 2081838 A 19820224 - OTIS ENG CO
- [A] FR 2311981 A1 19761217 - GOHIER JACQUES [FR]
- [A] GB 1059262 A 19670215 - BRITISH PETROLEUM CO, et al
- [A] EP 0014878 A1 19800903 - COMBUSTION ENG [US]
- [A] FR 2259419 A1 19750822 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [AD] US 4262702 A 19810421 - STREICH STEVEN G
- [A] PATENTS ABSTRACTS OF JAPAN, vol. 4, no. 6(M-88), 18th January 1980 & JP - A - 54 144 592 (HITACHI SEISAKUSHO K.K.) 10-11-1979

Cited by

EP0604715A1; US5421369A

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EP 0112073 A1 19840627; **EP 0112073 B1 19870107**; **EP 0112073 B2 19900228**; CA 1203924 A 19860429; DE 3369023 D1 19870212; ES 527019 A0 19870501; ES 537207 A0 19861116; ES 8701413 A1 19861116; ES 8705685 A1 19870501; JP S59114495 A 19840702; KR 840006540 A 19841130; KR 880002047 B1 19881013

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